

Rose-Hulman Institute of Technology

## Rose-Hulman Scholar

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The Rose Thorn Archive

Student Newspaper

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### Volume 53 - Issue 16 - Monday, January 29, 2018

Rose Thorn Staff

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## Spectre and Meltdown

### Or, How I Learned to Start Worrying and Hate My Computer

Thaddeus Hughes

#### Opinions Editor

Thursday at 10th hour in the GM room, Dr. Daniel Chang and Dr. Zak Estrada gave a talk about recently-found security exploits Meltdown and Spectre, which are similar in function.

The remarkable thing about these is they are valid attacks on nearly all modern computer architectures over the past 20 years, yet this potential attack has only recently been discovered. With such a hot topic, the GM room was filled with students across multiple disciplines.

Dr. Chang began by giving an overview of the computer architecture that enables the bug to happen, namely, a combination of pipelining, out-of-order execution, caching, and speculative branch prediction.

Dr. Estrada then demonstrated how to perform a basic Spectre attack.

So what is the risk exactly? The National Institute for Standards in Technology, NIST, places a 5.6/10 rating on the level of this threat. For reference, Heartbleed was a 5.0 and Shellshock was a 10. Why the low rating? It still requires local code

execution. As far as it is known, usage of this exploit is not common.

ed, “Who knows how long the NSA has known!”

to 25 percent degradation of performance.

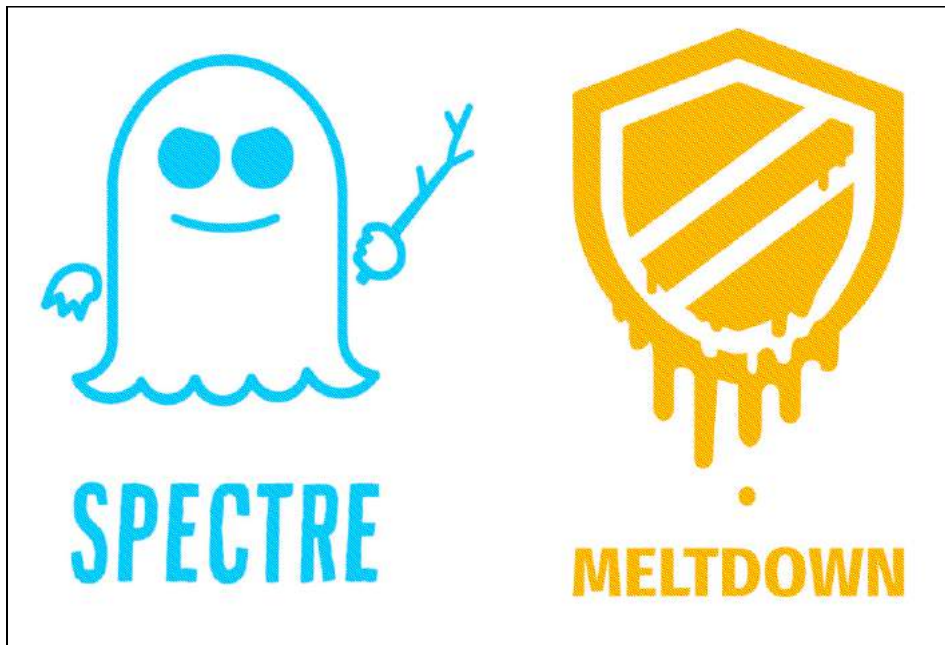
The general easy Meltdown fix is to split the kernel out into separate spaces, making it harder to guess and access kernel memory easily.

Dr. Sid Stamm asked about security issues relating to virtual machine usage on cloud computing systems. “The VM layer (a strategy employed by many hosting services to isolate application instances) helps, but does not make such services immune [from these attacks],” explained Dr. Estrada. “There are leaks across that boundary.”

Dr. Estrada remains fairly calm about the situation: “The sky is not falling... We don’t want to start burning our chips.”

“For most of my life, computer architecture has been about performance... we’ve been sacrificing everything for performance. Was this wrong? I don’t think so,” said Dr. Chang. “The problem with security is you’re always reactive.”

Dr. Chang did acknowledge there are some issues with chip manufacturer’s mentality. “When I was at Intel... in the initial talks, nobody talked about security...” he said. “Things do need to change.”



Spectre and Meltdown are two recently discovered CPU security flaws that affect nearly all processors made in the last 20 years.

Photo Courtesy of E Hacking News

As for the latency in which this was found, Dr. Estrada said, “It makes you wonder who else knew about this.” Dr. Chang jokingly add-

Developers are now making patches to prevent security issues as a result of this, and it could mean up



Page 4: Silver screen and local stage, it’s all good

Page 5: Do-Ho Suh at the Indy Museum of Art

Page 6: Government Shutdowns Do Not Work

Page 7: Rose track & field honors Senior Class of ‘23

## The Rose Thorn

### Meet Tuesdays

### 0259 5:15pm

## Banana Bonanza

### Bringing Local Beats to Campus

Lauren Wiseman

#### News Editor

WMHD is bringing the heat to a cold February day this Friday night at 8 p.m. Their winter concert event Banana Bonanza will kick off in the SRC Fieldhouse, which will be filled with the pop/punk sounds of local music.

Rose-Hulman band Kaleidoscope Eyes will open the musical extravaganza. Kaleidoscope Eyes is made up of Arisa Kouchi, Brennan Santaniello, Jenna Seto, and Jene Williams.

The band opens for My Sweet Fall and Small Words. Both My Sweet Fall and Small Words have played at the Hoosier Dome, and hail from Indianapolis, Indiana.

All those in attendance can expect an ice cream bar, bananas, and other refresh-



Small Words will be releasing their full length debut in the first half of this year.

Photo Courtesy of Small Words on Facebook

ments, which will be provided by WMHD.

Be sure to listen to WMHD online radio at <https://wmhdradio.org/>.



The five members of the pop/punk band My Sweet Fall have been playing since 2011.

Photo Courtesy of My Sweet Fall on Facebook

## Wilde Wit

### RDC Production Opens Friday

Lauren Wiseman

#### News Editor

Need a trivial comedy for serious people? The Rose Drama Club’s production of Oscar Wilde’s ‘The Importance of Being Earnest’ opens this Friday. The classic play follows a pair of friends who, in leading—and sharing—a double life, find out it

is the carefree, idle counterpart to the fastidious, proper Jack. All Jack wants is to propose to the vain, elitist Gwendolen Fairfax (junior Mathematics major Lauren Wiseman), but is deterred by Gwendolen’s iron-fisted mother, Lady Bracknell (senior Biomedical Engineering major Caroline DeBrotta).

Meanwhile, Algernon falls for Jack’s ward, Cecily Cardew

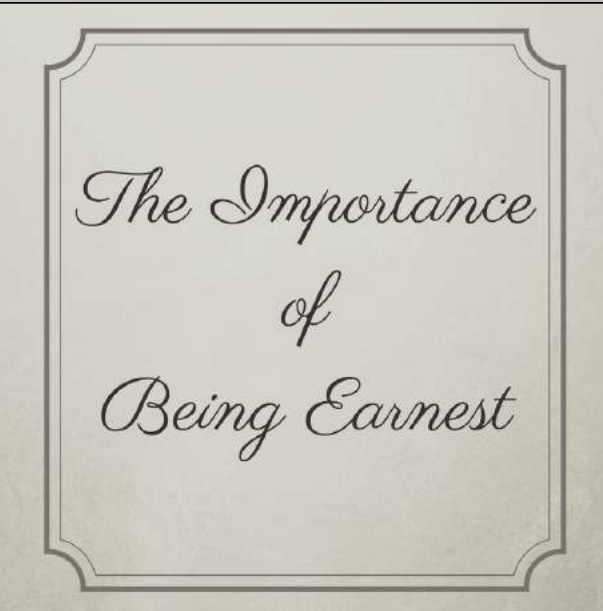
(sophomore Chemical Engineering major Victoria Johns). Cecily’s governess Miss Prism (Chemical Engineering Master’s student Rachel Weber) has other ideas for her, but is distracted by and infatuated with the Anglican canon, Dr. Chasuble (senior Computer Engineering major Curtis Humm).

The RDC production also stars junior Software Engineering and Mathematics major Walt Panfil as Merriman, Jack’s butler, and freshman Mechanical Engineering major Ethan Baker as Lane, Algernon’s butler. The butlers serve dry remarks as often as they serve tea.

The show opens this Friday at 7:30 p.m. at Hatfield Hall. Students receive free tickets, courtesy of SGA. Otherwise, tickets are \$15 for adults, and \$10 for those under 18 years of age. Tickets can be purchased at the front desk during the hours of 9 a.m. and 2 p.m. Monday through Friday.

‘The Importance of Being Earnest’ runs February 2, 3, 9, 10 at 7:30 p.m., with a matinee performance February 4 at 1:30 p.m.

The news editor is involved in the production; that did not influence the decision to report this story over other events.



The RDC winter production features timeless humor and societal satire.

Photo Courtesy of Rose Drama Club

is not as straightforward as they thought.

Much of Wilde’s comedy relies on the social conventions of the day, subverting expectations and taking shots at both the progressive and conservative parts of society to create an accessible, timeless play.

Directed by Dr. Terence Hartnett, the play stars sophomore Biochemistry major Michael DeBrotta and freshman Mechanical Engineering major Bo Geyer as Algernon Moncrieff and Jack Worthing, respectively. Algernon



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ISSUES of The Rose Thorn are published on the second through ninth Mondays of each academic quarter

WEEKLY MEETINGS occur at 5:15 p.m. on the first through ninth Tuesdays of each academic quarter. All members of the Rose-Hulman community are welcome to attend.

SUBMISSION of articles, photographs, art, and letters to the editor is encouraged. Submission may be made by email to [thorn@rose-hulman.edu](mailto:thorn@rose-hulman.edu) or in person to Percopo room 031. The submission deadline is 5:00 p.m. Friday.

THE RIGHTS to accept submissions or changes made after the deadline, to edit submissions in so far as the original intent of the submission remains unaltered, and to reject submissions deemed inappropriate for print are reserved by the editors.

LETTERS TO THE EDITOR should be no longer than 600 words in length and must contain the writer's (electronic) signature.

THE VIEWS EXPRESSED herein are those of their respective authors and with the exception of the Staff View do not necessarily represent the views of the staff or the Rose-Hulman community.



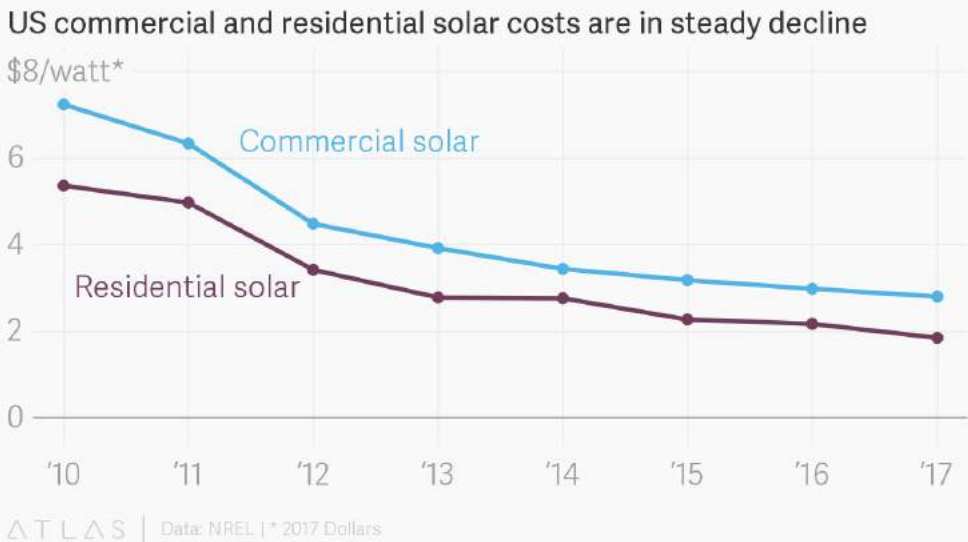
## News Briefs

Marc Schmitt  
Editor-in-Chief

### Trump Administration Imposes Solar Panel Tariff

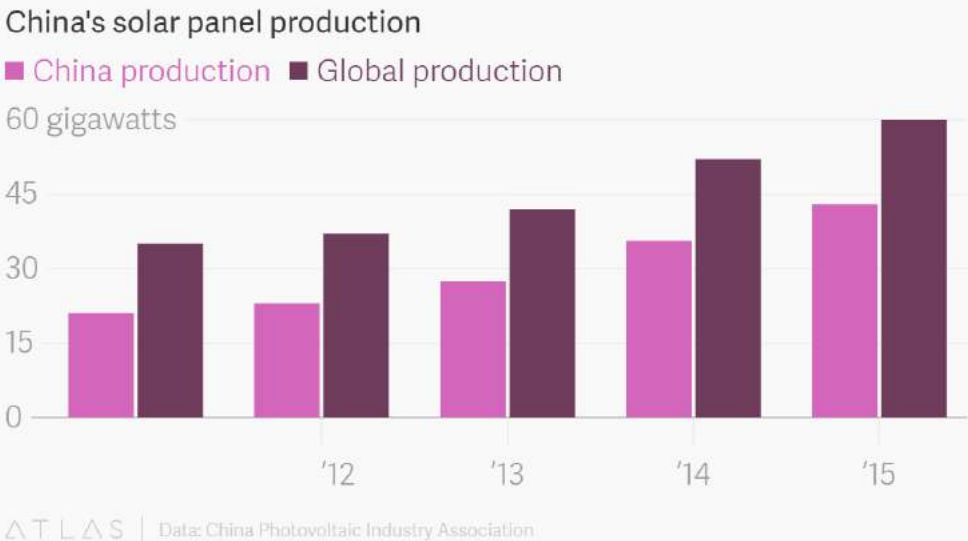
On January 22, the Trump administration imposed a 30 percent tariff on imported solar cells and modules. The tariff exempts the first 2.5 gigawatts of solar cells and modules and will be in force over the next four years, decreasing to 15 percent at the end of the period. The tariff represents the first action by the Trump administration to combat what it claims are unfair practices against United State manufacturing. A tariff was also placed on large residential washing machines imported from South Korea. Critics of the tariff have warned that the move could set off retaliatory measures by the Chinese government, escalating into a trade war. The move follows a recommendation from the United States International Trade Commission to impose a tariff of 35 percent on solar components. The commission had found that imported solar cells and modules had unfairly hurt domestic manufacturers. This is not the first time the United States has imposed tariffs on imported solar components. The Obama administration twice imposed tariffs, in 2012 and 2014, on Chinese solar manufacturers. In those cases, tariffs ranged from 26 percent to more than 78 percent. One difference is that Obama era tariffs were only applied to imported Chinese solar components. The new tariff will be applied to all imported solar cells and modules. China currently produces 60 percent of all solar cells and 71 per-

cent of solar modules, according to GTM. Since 2005, China's share of production has risen from 7 percent to 61 percent in 2012. However, Chinese solar cells and modules only represent 10 percent of imports to the United States. The Trump administration argued in the tariff filing that China has used "state incentives, subsidies, and tariffs to dominate the global supply-chain" of solar cells and modules. The tariff is expected to reduce solar demand in the United States. The Solar Energies Industry Association has projected that the tariff will cost 23,000 domestic jobs. The solar industry employs roughly 260,000 people, across a variety of sectors. GTM Research projects that solar installations will see a net reduction of 11 percent through 2022, resulting in 7.6 gigawatts of reduced installed capacity. The United States solar industry has been growing rapidly in recent years, owing much to the precipitous fall in cost for solar energy. According to the National Renewable Energy Laboratory, the residential price per watt has fallen 65 percent to \$1.85, and commercial price has fallen 61 percent to \$2.80. Solar energy production at the commercial level has also exponentially increased in recent years, from 612 MW in 2007 to 36,800 MW in 2016, according to the United States Energy Information Administration, representing a 60-fold increase.



The price per watt of commercial and residential solar has steadily declined as solar panels have precipitously fallen in price.

Graph Courtesy of Atlas



China manufactures roughly 71 percent of all solar modules. The remainder of solar modules are also produced in Asia.

Graph Courtesy of Atlas

## GREATEST FLOOR 2018

Marc Schmitt  
Editor-in-Chief

The 2018 Greatest Floor competition was held over the weekend. Teams of students from residence halls all around campus competed. Over 24 hours, students compete in 24 events. This year's theme was "The Final Frontier." The Percopo 2 team won the weekend-long event. In addition to a trophy, students competed for the "Floorch," a torch that embodied the spirit of the competition. This year's "Floorch" was space themed, created in the image of the space shuttle. Enjoy these photos from the competition and of the winning team. More information about the event can be found on My Rose-Hulman and Greatest-Floor.com.



Each floor was required to reenact a short scene from a space-related movie. Can you guess what this one was?

Photo by Emily Roberts



The Percopo 2 team won the 2018 Greatest Floor competition.

Image Courtesy of Dara Nafiu

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## ACADEMY AWARD ANALYSIS A PREDICTION OF THE OSCARS

Lauren Wiseman

### News Editor

With it being winter quarter, I don't have time to watch all of the Oscar-nominated motion pictures. In fact, I have seen exactly three of the 39 films. What I do have time for is reading FiveThirtyEight to learn how to predict how the Academy Awards will go. Normally, I don't care about the Oscars, but because I like procrastinating, I thought I would to try and predict which films would win based on what awards they have accumulated already. For this, I am only doing the categories pertaining to the production of a motion picture. I will not be looking at short films, documentaries, or foreign films.

According to Walt Hickey and Gus Wezerek from FiveThirtyEight, a Best Picture win can usually be pulled from the "Guilds": Directors, Producers, and Screen Actors. Among the nominees, *The Shape of Water* and *Three Billboards Outside Ebbing, Missouri* each have a "Guild" award to their name. Depending on which movie the Directors Guild Award goes to, that could be a deciding factor. That being said, although Guillermo del Toro's unorthodox love story is a spectacle, it will lose out to *Three Billboards Outside Ebbing, Missouri*.

Speaking of del Toro, he has so far been the choice for Best Director. Directors Guild of America is more than likely to determine the winner, but with del Toro being the only winning director so far, I think it would be safe to say he could snatch this one up. If it does not go to del Toro, it will go to Paul Thomas Anderson. The upset would be if Greta Gerwig managed to win--becoming the second woman ever to win Best Director--but I don't see that being likely.

Hickey and Wezerek write that a Screen Actors Guild award for best actor has meant an Oscar 18 of the last 22 years. This year, the SAG award went to Gary Oldman for his portrayal of Winston Churchill in *Darkest Hour*, as did the Critics' Choice and dramatic Golden Globe. Far and away, the Oscar for Best Actor goes to Oldman.

Contrary to Best Actor, Best Actress is not so cut and dry, and the award season thus far has been torn between Frances McDormand in *Three Billboards Outside Ebbing, Missouri* and Margot Robbie in *I, Tonya*; and Saoirse Ronan has snuck her way into the awards season discussion for her performance in *Lady Bird*. Snagging an SAG will often lead to an Oscar when accompanied by other awards. I think in the end, though, Margot Robbie will come out on top. If it does not go to her, McDormand will take the award.

Best Supporting Actor is one of those categories in which the Golden Globes actually "carry a lot of weight," according to Hickey and Wezerek. In this case, Sam Rockwell will

take the Oscar for his role in *Three Billboards Outside Ebbing, Missouri*. With an SAG Award, Critics' Choice Award, and the Golden Globe firmly in hand, Rockwell has a lock on the Oscar. The only other person who could sneak in and take it is Willem Dafoe for *The Florida Project*, but it will still most likely go to Rockwell.

Where Golden Globes are important for Best Supporting Actor, the SAG Awards are a better indicator for Best Supporting Actress. As with Rockwell, Allison Janney has picked up a Golden Globe, Critics' Choice Award, and the SAG Award for her role in *I, Tonya*, so the Oscar seems securely in her grasp.



Let the judging begin!

Photo courtesy of denofgeek.com

If an animated picture cleans house in the awards leading up to the Oscars, they have a better chance of winning the Academy Award. Naturally, this means Pixar's *Coco* is in the lead; and while *Coco* will most likely win, *Loving Vincent* deserves more recognition for its spectacular animation. The weird choice is *The Boss Baby*, and I have no idea how that got nominated. Whoever decided that should be fired, especially because that means both *The Lego Movie* and *The Lego Batman Movie* have been snubbed come awards season.

Now we move towards the technical side: screenplays, cinematography, and design. The only award given for adapted screenplay thus far was the Critics' Choice Award given to James Ivory for *Call Me by Your Name*. In the end, this will probably win out, though it is really cool to see that *Logan*'s screenplay was nominated for the Academy Award--it is a huge step forward in recognizing the artistic achievements of comic book films.

The Oscar for Best Original Screenplay could be a toss-up between Jordan Peele's *Get Out*, which won Critics' Choice, and Martin McDonagh's *Three Billboards Outside Ebbing, Missouri*, which took home a Golden Globe. Though, with *The Shape of Water* doing as well as it has been, it would be unwise to count that film out of the running. Come Oscar night, though, McDonagh will probably walk away with the Oscar, but the consensus online will be that Peele should have won.

Cinematography, to me, is pretty open and shut. The Oscar belongs to Roger A. Deakins for *Blade Runner: 2049*. He is a brilliant cinematographer, and the visuals for *Blade Runner: 2049* were stunning. If it goes to anyone else, it will be a huge upset. It is worth mentioning, however, that Rachel Morrison is the first woman nominated in the cinematography category, which is fantastic.

Editing could go a number of ways, but because *Baby Driver* took home the Critics' Choice, I assume Paul Machliss and Jonathan Amos will take the Oscar as well.

While *The Shape of Water* won the Critics' Choice for production design, I think *Blade Runner: 2049* stands a good chance as well. However, del Toro's imagination being realized onscreen will most likely end up sweeping that category at the Academy Awards.

The award for costume design is a toss-up between Mark Bridges for his work on *Phantom Thread* and Consolota Boyle for *Victoria & Abdul*. Ultimately, though, a film about fashion is going to surpass Boyle's historical pieces.

The Oscar for makeup and hair-styling will find its way into the hands of Kazuhiro Tsuji, David Malinowski, and Lucy Sibbick for *Darkest Hour*. Anytime you turn an Oscar-winning actor into a British Prime Minister, you win the Oscar for best hair and makeup. It worked for *The Iron Lady*.

Even though there are three Academy Award-winning heavyweights in the running for Best Original Score, Alexandre Desplat will take the Oscar for his work on *The Shape of Water*. While Hans Zimmer has done remarkable work in films, and while John Williams's scores are iconic and momentous, I predict Desplat will walk away with the win.

That being said, the Best Original Song award will probably go to "Remember Me" from *Coco*, but I am picking "Mystery of Love" from *Call Me by Your Name* to sneak in at the last minute and take the Oscar.

Sound Editing and Sound Mixing may be the most underrated Oscars (apart from the Documentary awards). Sound Editing belongs to Richard King and Alex Gibson for *Dunkirk* and the atmosphere they helped create. Sound Mixing should go to Julian Slater, Tim Cavagin, and Mary H. Ellis for *Baby Driver* and the meticulously crafted soundtrack.

Visual Effects could go a number of ways. *War for the Planet of the Apes* won the Critics' Choice, and the franchise has been nominated in the past, but I think *Blade Runner: 2049* will take the prize in the end, much to the chagrin of fans of *Guardians of the Galaxy: Vol. 2* and *Star Wars: The Last Jedi*.

Thus concludes the nominations I have enough information to predict with a measure of confidence. The Oscars are presented March 4, so we have all February long to speculate how this will all go down.

## A Touch of Local Color A Review of One Flew Over the Cuckoo's Nest

Lauren Wiseman

### News Editor

Being onstage seven out of ten weeks of the quarter usually bars me from seeing local theater, but when a friend got the lead in the Community Theatre of Terre Haute's *One Flew Over the Cuckoo's Nest*, a group of friends and I made it a priority to see it.

It was one of the best decisions I ever made.

Set in a mental hospital in 1963 Salem, *One Flew Over the Cuckoo's Nest* is based on the novel of the same name by Ken Kesey. When a man fakes insanity to be sent to a mental institution rather than prison, he goes toe-to-toe with the head nurse, determined to break her and rally the others in the ward to overcome her reign of terror. The tense story of order versus chaos was adapted for the stage in 1963, and won the 2001 Outer Critics Circle Award for Outstanding Revival.

One of the first things I noticed was the set. The set design is incredible, and was built to be extremely realistic. It ends up being the little details that make the difference: the hallway behind the back door, the space behind a sliding glass window, the interior of a supply closet. Spaces that could easily have

been left blank were crafted to be interesting interiors, thereby breathing more life into the set. A. J. Dinkel and Sandra Groves did a fantastic job creating a realistic mental ward. I felt like I had seen hospital wards that looked exactly like the one I was seeing onstage.

Complimenting the set design was the technical design, where the sound effects and lighting made the set breathe. Interior lighting was cold and clinical, while the light coming through the barred windows felt natural.

For a show like this, characterization is critical. The show was home to a number of well-acted characters. Ted Compton as Harding was great. He was compelling and sympathetic, but never pathetic, which with a character like that is a delicate balance to achieve.

Nurse Ratched is an iconic villainess, and Laura Reed played her with a deliciously wicked air. She inspires hatred in the audience, such that one feels glee in despising the character.

Dylan Sutherland, playing Billy Bibbit, is one of the most heartbreaking characters I have ever seen onstage. His tics carried through the entire show, and it was one of the first times I have seen a believable stutter in a character.

Not many people can live up to the legacy of the character of R.P. McMurphy. Competing with the likes of Kirk Douglas and Jack Nicholson is no easy feat. But Rose-Hulman senior Matt Fletcher is natural and compelling as R.P. McMurphy. You believe him to be guilty of the crimes he was arrested for, but he is charismatic in that you overlook those crimes and actively root for his victory.

It is an intense show, and it packs a punch. It was a visceral experience that I do not anticipate finding again. *One Flew Over the Cuckoo's Nest* runs at the Community Theatre of Terre Haute for one more weekend, with performances Friday and Saturday at 8 p.m. and Sunday at 1:30 p.m. Tickets are \$10 for students, and \$15 for adults. Visit [communitytheatre@ctth.org](mailto:communitytheatre@ctth.org) for more information.

Warning: The show contains some scenes which may be harmful to individuals wrestling with thoughts of self-harm or suicide. If you are struggling with these thoughts, please call 1-800-273-8255, or visit one of Rose-Hulman's on-campus counselors.





## A look into: Kali Uchis

The Beautiful DMV artist with the voice of an angel

Seun Ladipo  
Lifestyle Editor

Twenty-Three-year-old Karly-Marina Loaiza, better known as Kali Uchis, is a Columbian-American artist that has become very popular in the R&B / hip hop scene in the past few months. She grew up in Alexandria, Virginia but recently moved to Los Angeles to pursue her exploding music career.

Kali has tracks on an album she released in 2015 by the name of “Por Vida”. This album was very successful for someone of her obscurity at the time, though she has really been in the spotlight recently because of her amazing singles. Tracks such as

Tyrant with Jorja Smith, After the Storm with Tyler The Creator, and Get You with Daniel Caesar make up hundreds of millions of streams on various music platforms. Get You has even been nominated for Latin Grammy “Record of The Year” and a Grammy for “Best R&B Performance.”

To go into her sound a bit more, she has an extremely mellow and raspy singing voice reminiscent of Erykah Badu. She also has a very strong Latin influence on her music and even has a few songs that are completely in her native language of español. I find songs such as Nuestro Planeta, which have no English whatsoever, especially beautiful even though I don’t speak the lan-



A still from Kali’s “After the Storm” music video.

Photos Courtesy of youtube.com



Kali often expresses herself through her vivid imagery

Photos Courtesy of vox.com

guage. They truly make me focus on the music in the song and I develop a very different connection to it.

Apart from her own music she has also featured herself in many other artists’ music such as See You Again and Perfect by Tyler The Creator. Her angelic voice paired with Tylers deep raspy tone create a powerful duality in all of the music they make together.

Kali Uchis has also joined the long list of artists that express themselves in more than one art form. Her appreciation for fashion and visual aesthetic in not

only her music videos but her clothing make her an extremely interesting and visually pleasing artist to follow. Her music videos After The Storm and Tyrant are some of the more adventurous concepts I have seen in recent years, and I cannot wait to see more of her art in the future.

If you are looking for a new artist to get into and have any interest R&B, hip hop, soul, or even if you’re looking a new form of fashion inspiration, Kali Uchis should be in the realm of possibilities for someone you should pick up.

## The Floor

### A visit to the Indianapolis Art Museum

Jared Gibson  
Staff Writer

I woke up a little earlier than usual on Saturday morning so I could meet up with some friends and spend the day in Indianapolis. We had only one item on the agenda: visit the Indianapolis Museum of Art. The lack of structure to the trip was purposeful. We left a lot of room for improvisation. There were no time limits, and exhibits could be visited in whatever order one pleased regardless of the rest of the group members’ routes.

The bottom floor consisted of mostly paintings and sculptures from several different eras in art history. I found Neo-Impressionism to be my favorite style. Instead of long brushstrokes, the artist would use points or broken brushstrokes to create their pieces. On the second floor, I discovered within me a fascination for couches of unorthodox shapes as we passed through the Modern Design section of the museum. But my favorite of all the exhibits lay on floor above in the Modern Art sec-

are invited to interact with the sculpture by stepping onto the platform. Looking down through the tiles, the viewer discovers hundreds of dots of colors, and upon closer inspection, one realizes that these are not dots of color at all. They are people. Tiny, action-figure-like men and women of all shapes, colors, and sizes stand beneath the viewer with their arms extended, palms pressed flat against the glass, and their gazes lifted upwards, almost as if through their collective effort, they are successfully holding up the glass floor and whatever stands upon it.

If you’ve taken any sort of psychology or even watched an episode of Mindhunter you’ve probably noticed that a big question about human nature is: What determines our behavior? What determines how we respond to stimuli of all kinds, how we interact with others around us, how we come to hold the beliefs and values that ultimately shape our identity? Who is responsible for this? In other words, who shapes us? Although it may be a comforting thought that we are who we make ourselves to be, that we

are in complete control of what we become, one cannot deny that our environment, the people we met, liked, loved, and even hated, the things we see, hear, and listen to, all play key roles in shaping who we are at this moment. We are in some ways a product of our environment and in other ways not. No



Viewers are encouraged to interact with the art piece by stepping onto the glass

Photo by Dalal Bima

doubt the answer to this question is complex.

Reading the plaque next to the exhibit helped me realize that these tiny figurines, the glass, and the viewer on top of the glass provide a simple way to illustrate the complex answer to this big question. This tension between individuality and our inherent need to be a part of a group is one the fascinating things about being human, and this particular sculpture plays upon this idea wonderfully. Yet the pane of glass between the viewer and the little G.I. Joes give the piece a subtle and very negative undertone. It gives one the impression that these people underneath your feet are imprisoned, put there underneath this glass against their will, and you, by standing on top of it, are making their burden a heavier one.

So which one is it? Are these people supporting you, lifting their gaze upward to watch their investment in you grow

into something wonderful? Or are you stepping on them, and they in response look upward at their oppressor who takes advantage of their size and position to elevate himself to a place of higher standing and power? Is it a combination of the two? Neither? Perhaps it is neither, and I am no authority on modern art. But I still love when pieces such as these provoke powerful, introspective trains of thought.

Does this piece have any relevance to the way you treat others around you? Are you stepping on them? Or are they supporting you? The line setting apart one from the other may be thinner than you realize, and that’s part of what this piece shows. It speaks magnitudes through something relatively small. Its meaning is so complex for something so simple. Elegant and thought-provoking, this was definitely my favorite piece. You should check it out sometime.

## “I discovered within me a fascination for couches of unorthodox shapes...”

tion.

Among the odd (and sometimes frightening) exhibits offered by the modern art section of the museum is an interactive sculpture called ‘The Floor.’ Created by the artist Do-Ho Suh, it looks like several panes of glass laid down horizontally to form a platform of unnecessarily-large glass tiles. Viewers



## Shutdown Throwdown

Andrew Henderson

**Staff Writer**

At midnight EST on Saturday January 20, 2018, the United States federal government shut down for the fifth time in history. Operations ceased after the Republican majority senate failed to pass government-funding legislation with the supermajority required to end a democrat led filibuster. This would lead to a nearly 72 hour shutdown of almost every federal government activity. Discussion of immigration, including greater funding for border protection and the Democrat desire for an extension of status to the Dreamers defined within the DACA immigration policy surrounded the shut-

years ago on May 1, 1980. Prior to this time, Congress largely ignored the 1884 Antideficiency bill which made it illegal to expend government funds without congress's permission. However, 5 days before May 1st the attorney general Benjamin Civiletti forced congress to comply with the 1884 act and the US government was shut down. Unlike today's shutdowns, however, this lasted for less than 1 day, as the same evening Congress passed an extension of funding for the FTC, whose expiration of funding was to blame for the shutdown. This shutdown was caused by the congress delaying funding discussion in hopes of passing a different

**“Most issues are simply kicked down the road to later discussion”**

publican senate allowed the government to shut down from Saturday October 6 through Monday October 9. The shutdown ended when agreements were made around reductions to the budget cuts to Medicaid and cuts to capital taxes were grouped with raising income taxes on the wealthy. This shutdown would also largely hurt the political power of those who caused it, as popularity of both the Republicans in the senate and in the White House dropped, and the shutdown was partially blamed for Bush's loss in the 1992 presidential election.

The next shutdown would also occur in the 90's, when President Bill Clinton vetoed a spending reduction bill passed by the Republican congress. Once again, Newt Gingrich would not agree to any spending increase, and cause a shutdown in late 1995 and early 1996. This shutdown is the longest government shutdown in history as it lasted 27 days (in 2 separate sections), and was largely blamed on the Republicans. Public opinion believed that Newt Gingrich was acting out in spite against the President. This would see a reduction in popularity of both the Republican party and the President during the shutdown, with only the President gaining back his popularity after the shutdown ended. Similar to the early 90's shutdown, Republicans lament their loss of the 1996 presidential elections and Newt Gingrich observed in his later autobiography that some of his comments during this period were the largest mistakes he made in his political career.

In the Fall of 2013 the Republican-led House of Representatives and the Democrat-led Senate were unable to come to an agreement on funding for the Affordable Care act. The Republicans wanted to reduce the Affordable Care Act while the Democrats wanted to see no change in funding. This would lead to a 17-day shutdown of the government, which ended with the Republicans folding on almost all points, and public opinion sitting squarely on the side of the Democrats. Many United States citizens agreed with decreasing the Affordable Care Act's budget, however they did not believe it was worth shutting the government down.

The pattern is obvious when you look back at the historical context of government shutdowns: the group pushing for new policy, without will to discuss, gets burned, and opinion towards the legislative and executive branches worsen. On top of the decreasing public opinion, few real concessions are made during the shutdown and most issues are simply kicked down the road to later discussion. Americans want their representatives and senators to care about funding, however they largely disagree with shutting down the government- for any reason. Political actors should learn from past shutdowns and focus on stopping shutdowns from ever occurring especially surrounding policy that has little to do with budgetary changes. Any party that believes they will come out of a shutdown looking better than they did going in, will be sorely disappointed.

**“The shutdown was doomed from the very start”**

down.

The shutdown finally ended the next Monday when Senate Democrats agreed to end the filibuster as long as the Republicans agreed to discuss the DREAM act, which looks to fix the status issue for Dreamers by the continuing of the next resolution on February 18.

This has been portrayed as a failure of Democrat politics, with Republicans ceding very little. Some blame the Democrats for ending the shutdown so early and not holding out long enough to get agreements that are more substantial with Senate Republicans. However, the shutdown was doomed from the very start, as any government shutdown that looks to acquire political ends will fail and hurt the party pushing for it.

Government shutdowns in the United States are a relatively young part of American politics; the first shutdown occurred less than 28

bill would that was looking to limit the powers of the FTC. This bill was not passed before the shutdown ended, and the Democrats who were in control of all sections of government were largely blamed for the incident. This would not be the first time a shutdown would blow up in the face of the group trying to use funding extension to gain other political power.

The next incident occurred in 1990 when the 1991 United States Federal budget was not passed after Republican Senate Minority Leader Newt Gingrich walked out on discussion surrounding the budget. The budget contained a tax increase which went against one of presidents George H. W. Bush's campaign promises. Hoping to keep the President to his campaign promises (even as the President himself was supporting the budget deal), Newt Gingrich and the re-

## US Must Stop Bloodshed Support for Saudi War in Yemen Must End

Marc Schmitt

**Editor-in-Chief**

Since 2015, the United States has been accessory to human rights abuses at the hands of Saudi Arabia.

The civil war taking place in Yemen has been perpetrated with the complicit support of the United States, in the form of weapons sales, logistical support, and political cover.

For those not well-versed in the Yemeni conflict, here is a quick recap of where the conflict stands. In the wake of the Arab Spring, rebels from the Houthi faction of Yemen, supported by Iran, have fought against the internationally recognized government of President Abdrabbuh Mansour Hadi.

A Saudi-led coalition has supported the Yemeni government against the Houthi rebels. Being a strategic partner in the region, the United States has lent significant logistical support to Saudi Arabia in

the form of airborne bomber refueling and arms resupplying. President Trump recently concluded the sale of another \$1.5 billion worth of arms to Saudi Arabia as part of a \$110 billion deal. This is on top of the \$115 billion worth of military arms that president Obama sold to Saudi Arabia during his term in office.

What has not been in the headlines are the casualties that the United States' proxy war has racked up. To date, the conflict has seen over 10,000 people killed and close to 50,000 people wounded. The crisis in Yemen has created one of the largest manmade famines, threatening over 20 million people, an outbreak cholera, and displaced over 2 million people, according to the United Nations High Commissioner for Refugees.

In this fetid war, Saudi Arabia is pursuing an indiscriminate bombing campaign that has seen civilians routinely targeted. Despite Ameri-

can attempts to establish a no-strike list, with ample logistical support for accuracy, Saudis have regularly struck civilian targets. One strike on a funeral in the capital Sana'a killed a hundred and forty civilians and wounded five hundred. Among the debris was a piece of the bomb, which had the serial number of an American bomb produced by Raytheon, which hires Rose-Hulman graduates, including those from the class of 2017.

At issue is the United States' complicity in supporting a war that is antithetical to American values. Saudi Arabia jumped into the war because of the impulses of the newly instilled crown prince Mohammed Bin Salman, eager to make a statement in the region. Saudi Arabia's importance as a regional ally has dragged the United States into supporting his gambit at the cost of perpetuating human rights abuses. Yes, the Houthis have committed abuses as well, but they have not

had the luxury of using American made ordinance and satellites to rain down upon innocent civilians.

Neither president Trump or his neutered State Department seemed inclined to act upon the worthless suffering of millions. Nor has Congress checked our support for Saudi Arabia in its campaign to further decimate Yemen, which was already the poorest country in the Middle East before the war.

President Trump should not continue to support Saudi Arabia in its campaign against the Houthis. The United States should work towards finding a mediator to hold peace talks between the warring factions, get the Saudis to remove their blockade of the country, and allow full access to aid workers.

The manmade crisis in Yemen has gone on for far too long, and the United States should no longer be complicit in Saudi Arabia's human rights abuses.

**PRO?**

**CON?**

**It's your opinion.**

**Share it!**

**Submit via:**

[goo.gl/bqLbeA](https://goo.gl/bqLbeA)



# Track & Field

Blake Powell

**Sports Editor**

Rose-Hulman won six total events and honored the Senior Class of 23 athletes by taking 1st in the men’s meet and 2nd in the women’s meet.

The men’s team won with a score of 152.5 followed by Wabash with 109.5 points. On the women’s side, Bellarmine won the meet with 148 points followed by Rose-Hulman with 123.5 points.

Josh Himes was the lone men’s individual event winner in the shot put throw with a distance of over 50 feet. The men’s 4-x-200 meter relay team of Dawson Allen, Kristian Zadlo, David Goncharov and Tre’ Montique earned first place with a time of 1:33:60.

Women’s first place winners were Camille Blaisfell in the 5,000 meter run, Lauren London in the long jump, Gabi Razma in the triple jump and the 4-x-200 meter team of Adekite Oladipupo, Razme, Jaclyn Setina and

Victoria Heckenlively.

The depth of the men’s team is what won the meet for them by earning five runner-up finishes. Himes in the weight throw, Goncharov in the triple jump, Cameron Prisby in the pole vault, Nathan Schrader in the shot put, and the 4-x-400 meter relay team of Alex Huber, Aaron Lannoy, Nick Saulcy, and John Evans all finished second in their events.

The teams will return to action at the Illinois Wesleyan Keck Select Meet on Saturday February 3rd.



“I was running.” -Forrest Gump

Photo By USAtoday.com

# RHIT Swimming

Blake Powell

**Sports Editor**

Rose-Hulman won 11 total events, and the men earned a great victory over Franklin in the Senior Night home meet at the SRC on Friday night.

The men’s squad won 146-77 over the Grizzlies, while the Franklin women remained unbeaten on the season with a 154-61.5 team win.

The men’s Squad was led by two-event winner Cam Gill, who won the 100-backstroke and 200-freestyle.

Sean Gish won the 100-freestyle, Dutch Kipp won the 200-individual medley, Avery Krovetz won the 500-freestyle, Ethan Park won the 100-breastroke, and Tyler Sariscsany in the 50-freestyle.

Rose-Hulman also won both men’s relay events on the evening with the team of Ben Stone, Park, Michael Rosier, and Sarscsany in the 200-medley relay

along with the team of Kipp, Stone, Gish and Gill in the 400-freestyle relay.

Rose-Hulman celebrated and honored the achievements of their Senior Class of 12 prior to the meet. This year’s group of seniors include Kirk Dickson, Cam Gill, Patrick King, John Koopal, Avery Krovetz, Bethany Lefeber, Evan Meridith, John Rupp, Austin Salisbury, Tyler Sariscsany, Daniel Skiroock and Ben Stone.

Rose-Hulman will host the inaugural HCAC Swimming and Diving Championships on February 9th-11th at the Vigo County Aquatic Center.



Smile for the camera, Ethan.

Photo By Rose-Hulman Athletics

## RHIT SPORTS BOX SCORES

### RHIT Men’s Basketball

Blake Powell

**Sports Editor**

The Rose-Hulman men’s team beat Transylvania 70-69 on Saturday afternoon, which kept the Fightin’ Engineers tied for first place in the conference.

The two teams fought hard in the first half with the score tied 26-26.

To start the second half, Charlie Aimone went on a 9-0 run to push the lead to 35-26.

Transylvania answered to bring the score to 68-66 with seven seconds left. Aimone hit a pair of free throws, which Transylvania answered with a three-pointer to bring the score to 70-69 where Rose-Hulman was able to run out the clock.

The Fightin’ Engineers improved to 12-7 overall and will return to action Wednesday night.

MEN’S BASKETBALL	1	2	FINAL
ROSE-HULMAN(12-7)	26	44	70
TRANSYLVANIA(13-6)	26	43	69

### Standout Performers

Charlie Aimone– 19 points and 10 rebounds

John Czarnecki– 16 points and 7 rebounds

## RHIT Women’s Basketball

Blake Powell

**Sports Editor**

The Rose-Hulman women’s team improved to 12-0 in conference with their 68-56 win over Transylvania on Saturday afternoon.

Both teams started slow by turning the ball over on seven of the first nine possessions. However, Rose-Hulman warmed up and took an 18-10 lead at the end of the first

quarter.

Transylvania slowed down the Fightin’ Engineers to outscore them 13-12 in the second quarter.

In the second half, Rose-Hulman only turned the ball over twice and extended their lead in the third quarter.

WOMEN’S BASKETBALL	1	2	3	4	FINAL
ROSE-HULMAN(16-3)	18	12	17	21	68
TRANSYLVANIA(14-5)	10	13	12	21	56

### Standout Performers

Abby Bromenschenkel– 13 points, 5 assists, 2 steals, and 2 blocks

Alyzia Dilworth-13 points

Chiarra Franklin–7 points and 8 rebounds

# RHIT Player of the Week




Photo by Rose-Hulman Athletics

**Abby Bromenschenkel** is the RHIT Player of the Week. Abby balled out on Saturday afternoon by racking up 13 points, 5 assists, 2 steals and 2 blocks. Abby is the starting point guard for the conference leading women’s basketball team. As a sophomore Abby was named to the All-HCAC second team along with helping out the team in their previous back-to-back HCAC championships.

## Intramural Standings

### Basketball

TEAM NAME	W	L	T	GP	STREAK	STANDING
Sigma Nu	4	0	0	4	W4	1st
Fiji– Sham Yao	4	0	0	4	W4	1st
Triagle B	3	1	0	4	W3	3rd
Pike Garnet	3	2	0	5	W1	4th
Cat Salads	2	2	0	4	W1	5th

### Volleyball

TEAM NAME	W	L	T	GP	STREAK	STANDING
Fiji 3	4	0	0	4	W4	1st
Sigma Nu	5	0	0	5	W5	1st
Fiji Borkers	4	1	0	5	W4	3rd
Pike Garnet	3	1	0	4	L1	4th
Triangle B	3	2	0	5	L1	5th

### Greek B

TEAM NAME	W	L	T	GP	STREAK	STANDING
Ball Stars	5	0	0	5	W5	1st
East 3	5	0	0	5	W5	1st
Cankle Breakers	3	1	0	4	W3	3rd
Lakesquad	3	2	0	5	L2	4th
Beasts of Weast	2	2	1	5	W2	5th

### Res Hall B1

TEAM NAME	W	L	T	GP	STREAK	STANDING
Game Good	4	0	0	4	W4	1st
Hit Squad	4	1	0	5	W3	2nd
Beasts of Weast	4	1	0	5	W1	3rd
Net Effect	2	2	0	4	L2	4th
IM Frisbee	2	3	0	5	L1	5th



# National 7 Day Forecast

National Corn Chip Day	29	National Plan for Vacation Day	30	National Backward Day	31	National Texas Day	01	Bubble Gum Day	02	National Missing Person Day	03	National Create a Vacuum Day	04
National Puzzle Day		National Croissant Day		National Inspire Your Heart With Art Day		National Get Up Day		National Groundhog Day		National Women Physicians Day		National Homemade Soup Day	
National Bubble Wrap Appreciation Day						National Baked Alaska Day		National Heavenly Hash Day		National Carrot Cake Day		National Thank a Mail Carrier Day	
						National Freedom Day		National Wear Red Day		National Day the Music Died Day			
						National Serpent Day							

## WACKY PROF QUOTES

“Nobody ever says, ‘Dammit, I wanted more class time!’”  
- Dr. Richard House

“If the p-value’s low, reject that ho!”  
- Dr. Megan Heyman  
*This was a painful moment.*

“We aim for an explosion-free experience here in ECE230.”  
- Dr.Zak Estrada

“This can be challenging, luckily, since I’m a lazy weasel, I chose something easy.”  
- Dr. Jeffery Leader

Student: “Have a nice day.”  
“Too late.”  
- Dr. John Rickert

Did your prof say something hilarious or just great out of context? Did you hear something amusing on your jaunt about the fine halls of this institution? We want to hear about it! Send your quotes with who said it to: [thorn-flipside@rose-hulman.edu](mailto:thorn-flipside@rose-hulman.edu) or fill out this nifty google form: <https://goo.gl/forms/bB339sx6GHohggYt1>

## Top 10

Ways to Show that the Cold Never Bothered You Anyway

1. The snow glows white on the mountain tonight
2. Not a footprint to be seen.
3. A kingdom of isolation, and it looks like I’m the Queen
4. The wind is howling like this swirling storm inside
5. Couldn't keep it in;
6. Heaven knows I've tried
7. Don't let them in, don't let them see
8. Be the good girl you always have to be
9. Conceal, don't feel, don't let them know
10. Well now they know
11. Let it go, let it go
12. Can’t hold it back anymore
13. Let it go, let it go
14. Turn away and slam the door
15. I don’t care what they’re going to say
16. Let the storm rage on.
17. The cold never bothered me anyway

## The HORRORscopes

These Horoscopes have been put together through a rigorous study of ancient texts and intense communication with our extraterrestrial neighbors.

**ARIES:**  
I smell like beef.  
*I smell like beef.*  
I smeLL liKE beEF.  
**I smell like beeeeeef.**

**TAURUS:**  
It’s an avocado! Thanks.

**GEMINI:**  
Hey, how much money do you have?  
Oh, like 69 cents.  
Ah, you know what that means!  
I don’t have enough money for chicken nuggets.

**CANCER:**  
Get to Del Taco. They’ve got a new thing called “FR E SH A VOCA DO !”

**LEO:**  
Why are you running?  
WHY are you running?!

**VIRGO:**  
Hey, do you know where I can get some drugs from?  
Excuse me, you’re in a library.  
My bad. *Do you know where I can get some drugs from?*  
Yeah, what you need bro?

**LIBRA:**  
There is only one thing worse than a rapist. Boom.  
A CHILD.  
No.

**SCORPIO:**  
Hey, what y’all get for number 12?  
I got 18.  
I got 9.5.  
I got Abraham Lincoln, for some reason...

**SAGITTARIUS:**  
I’m just chilling. In Cedar Rapids.

**CAPRICORN:**  
His hair? Whack.  
His gear? Whack.  
His jewelry? Whack.  
His foot stance? Whack.  
The way that he talks? Whack.  
The way that he doesn’t even like to smile? Whack.  
Me? I’m tight AF

**AQUARIUS:**  
Hey bro, can I get a sip of that water?  
It’s not water.  
Vodka? I like your style.  
It’s vinegar.  
What?  
It’s vinegar, you pussy.

**PISCES:**  
Chris; is that a weed?!  
No, this is a crayon.  
I’m calling the police!  
911, what’s your emergency?

## Heard ‘Round Campus

“Don’t sell your body to the U.S. government.”

## Fact of the Week

There are only 233,387,134,235,158,158,459,102 payments left before you fully pay off your college loans!



Photo Courtesy of Emily Rusnak

## Decent Pet of the Week

This is Frodo. He is a king.